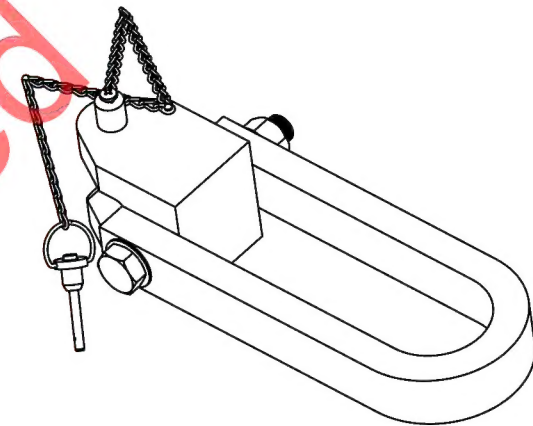
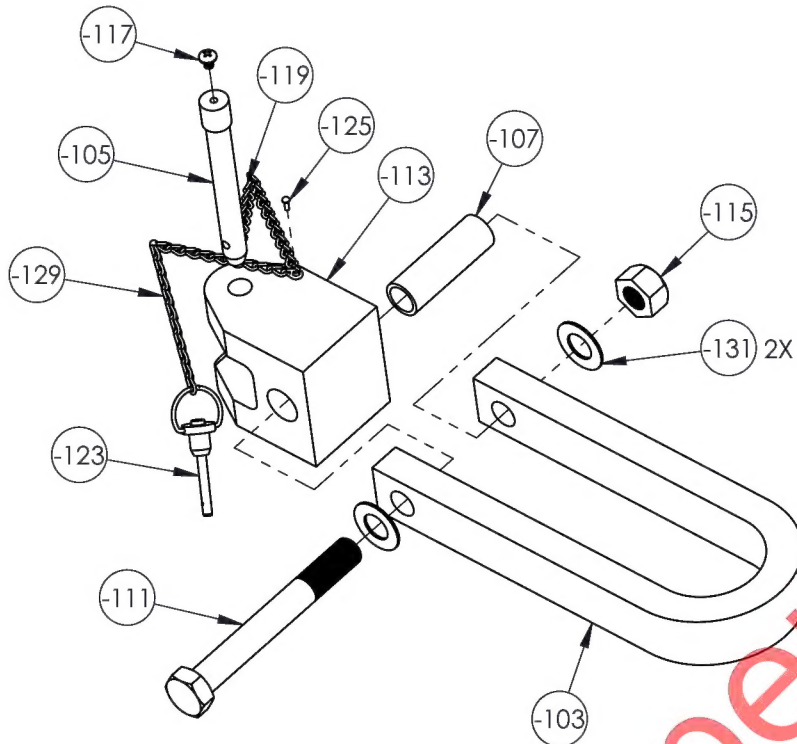


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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| A | 14-0208 | DELETED NOTE 2 SHEET ONE. -103 CH'D ENGRAVE NOTE ONE SIDE TO READ ENGRAVE T/N, S/N, "MADE IN USA", THE OTHER SIDE TO READ ENGRAVE "CAPACITY 12000LBS" PROOF LOAD 24000LBS TO FIT. | 11/4/2014 | RJC | JAG |



UNDER REVIEW
URF 19-670 19.03.29 (VM)

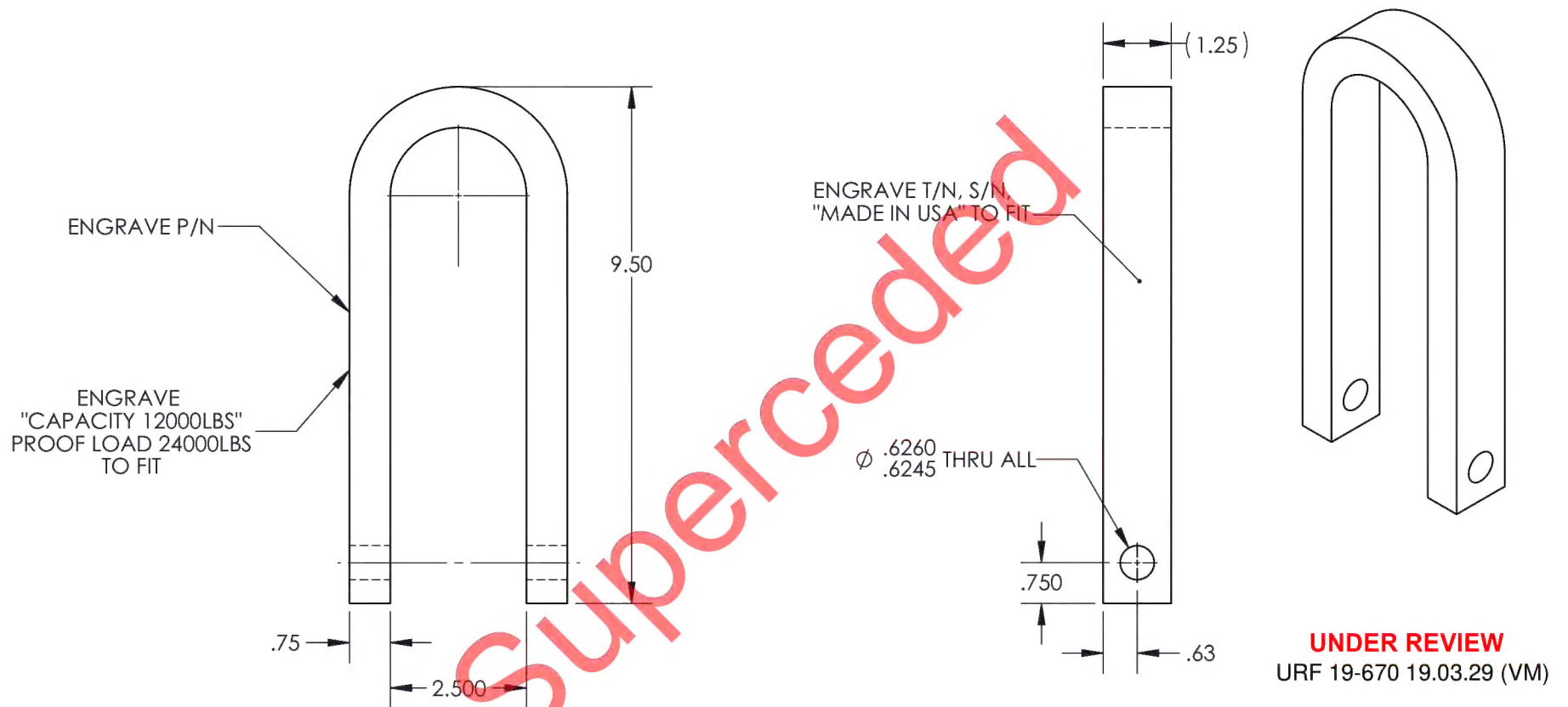
NOTES
1. TORQUE -115 NUT TO 30-55 FT.LBS.

| ASSY QTY | ASSY QTY | B/O | Part # | UNIT QTY | Description | Material | B/O INFORMATION OR SPECIFICATIONS | PG. |
|----------|----------|-----|--------|----------|----------------------|------------------|--|-----|
| | | | -103 | 1 | STRAP | 4140 | 1-1/4 X 4-1/8 X 9-5/8 (SAME AS RB T102140-103) | 2 |
| | | | -105 | 1 | PIN | 4140 | Ø5/8 X 4-3/4 | 3 |
| | | | -107 | 1 | SLEEVE | 4130 | Ø7/8 X 2-5/8 (SAME AS RB T102140-107) | 4 |
| | | B/O | -111 | 1 | HEX HEAD CAP SCREW | Gr. 8 CAD PLATED | 5/8-18 UNF X 5 (NAS6610-64) | 1 |
| | | | -113 | 1 | CLEVIS | 4140 | 2-1/2 X 3 X 3-5/8 | 5 |
| | | B/O | -115 | 1 | FLANGE NUT | CAD PLATED STEEL | 5/8-18 UNF (NAS1291-10) | 1 |
| | | B/O | -117 | 1 | PHILLIPS MACH. SCREW | PLATED STEEL | 10-24 X 1/4 MCMASTER-CARR #90272A238 | 1 |
| | | B/O | -119 | 1 | CHAIN | BRASS | 1/0 SIZE X 10" LONG (NAS1455B00-10) | 1 |
| | | B/O | -123 | 1 | BALL LOCK PIN | PLATED STEEL | Ø3/16 X 1" USABLE (NAS1333S6S10D) | 1 |
| | | B/O | -125 | 1 | DRIVE SCREW | PLATED STEEL | Ø.100 X 1/4 (MS21318-15) | 1 |
| | | B/O | -129 | 1 | CHAIN | BRASS | 1/0 SIZE X 6" LONG (NAS1455B00-6) | 1 |
| | | B/O | -131 | 2 | FLAT WASHER | CAD PLATED STEEL | Ø5/8 ID (MS20002C10) | 1 |

| | | | | |
|---|--|--|---------------------------|--|
| | | | TITLE | |
| | | | LIFTING TOOL | |
| DWG NO. | | | RB T102137-111 | |
| REV | | | A | |
| MAT'L | | | DRAWN BY: DUERFELDT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | | APPROVED <i>J Gilbert</i> | |
| .XXX ± .005 | | | HEAT TREAT | |
| .XX ± .01 | | | FINISH | |
| .X ± .1 | | | ANGLES ± 5° | |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | | SPEC | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | | USED ON MODEL | |
| SCALE 1:4 | | | BELL 429 | |
| DATE 10/1/2014 | | | SHEET 1 OF 6 | |

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|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| A | 14-0208 | -103 CH'D ENGRAVE NOTE ONE SIDE TO READ ENGRAVE T/N, S/N, "MADE IN USA", THE OTHER SIDE TO READ ENGRAVE "CAPACITY 12000LBS" PROOF LOAD 24000LBS TO FIT. | 11/4/2014 | RJC | JAG |



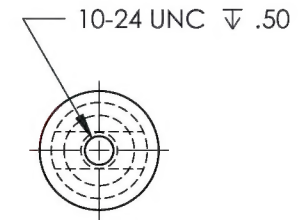
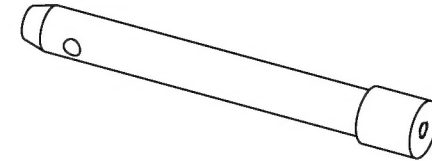
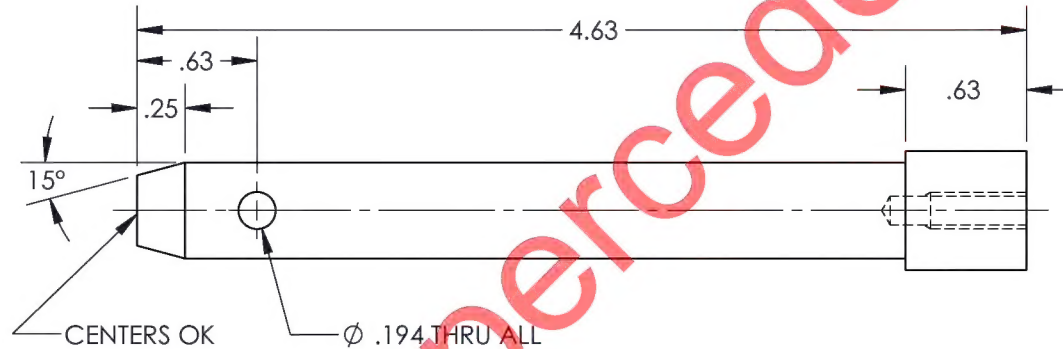
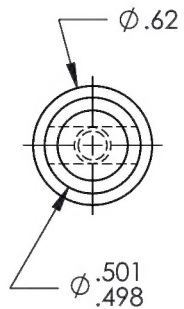
-103

STRAP

| | |
|--|-----------------------------------|
| DART AEROSPACE | |
| TITLE LIFTING TOOL | |
| DWG NO. RB T102137-111-103 | REV A |
| MAT'L 4140 | DRAWN BY: DUERFELDT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>J Gilbert</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 32-38 |
| .XX ± .01 ANGLES ± 5° | FINISH CAD PLATE YELLOW |
| .X ± .1 | SPEC QQ-P-416F, TYPE II, CLASS II |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | BELL 429 |
| SCALE 1:3 | DATE 10/1/2014 |
| SHEET 2 OF 6 | |

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|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |



UNDER REVIEW
URF 19-670 19.03.29 (VM)

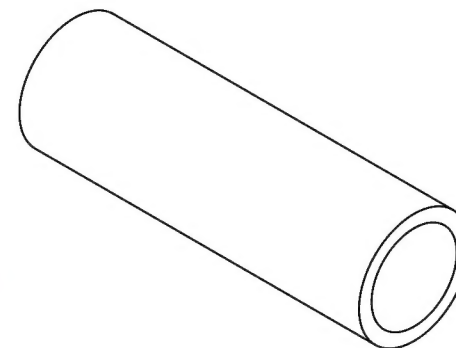
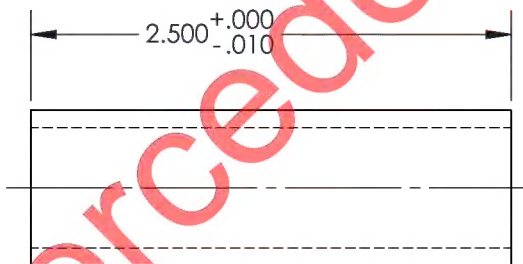
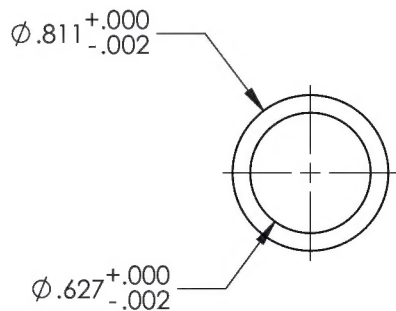
(-105)

PIN

| | |
|--|--|
| DART AEROSPACE | |
| TITLE LIFTING TOOL | |
| DWG NO. RB T102137-111-105 | REV A |
| MAT'L 4140 | DRAWN BY: DUERFELDT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>J Gilbert</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 46-50 |
| .XX ± .01 ANGLES ± 5° | FINISH CAD PLATE YELLOW |
| .X ± .1 | SPEC QQ-P-416F, TYPE II, CLASS II |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | BELL 429 |
| SCALE 1:1 | DATE 10/1/2014 |
| SHEET 3 OF 6 | |

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| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |



Supercircled

UNDER REVIEW
URF 19-670 19.03.29 (VM)

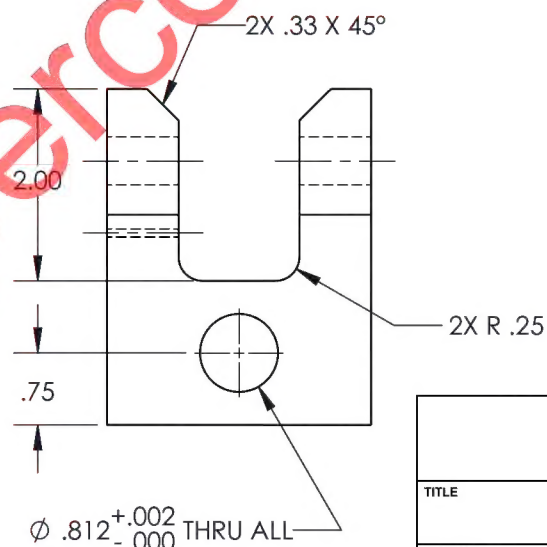
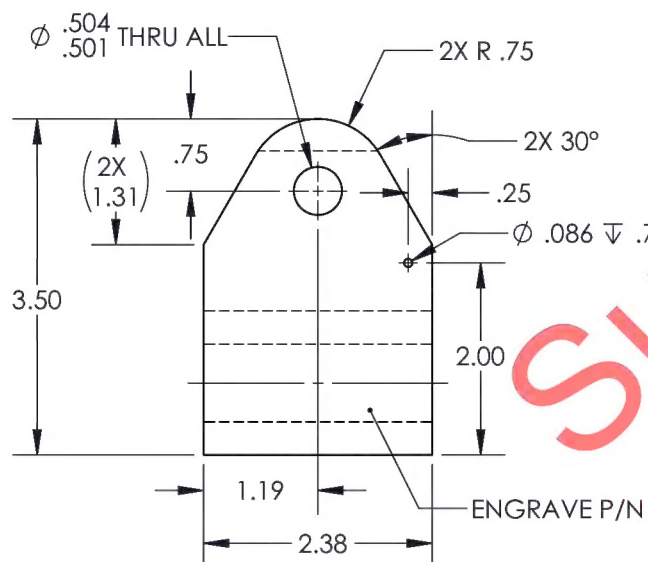
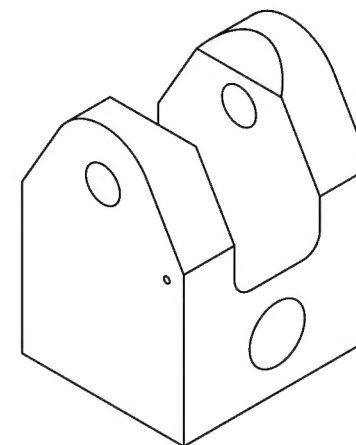
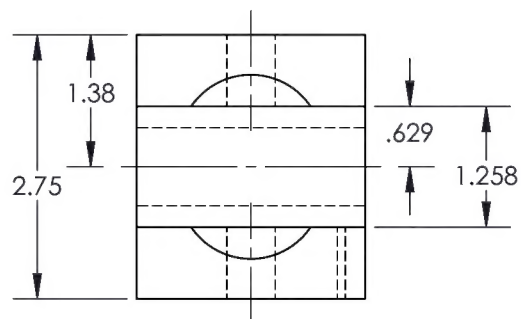
NOTE:
SAME PART AS T102140-107

-107

SLEEVE

| | |
|--|-----------------------------------|
| DART AEROSPACE | |
| TITLE LIFTING TOOL | |
| DWG NO. RB T102137-111-107 | REV A |
| MAT'L 4130 | DRAWN BY: DUERFELDT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>J Gilbert</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 32-37 |
| .XX ± .01 ANGLES ± 5° | FINISH CAD PLATE YELLOW |
| .X ± .1 | SPEC QQ-P-416F, TYPE II, CLASS II |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | BELL 429 |
| SCALE 1:1 | DATE 10/1/2014 |
| SHEET 4 OF 6 | |

| REVISIONS | | | | | |
|-----------|-----|-------------|------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |



UNDER REVIEW
URF 19-670 19.03.29 (VM)

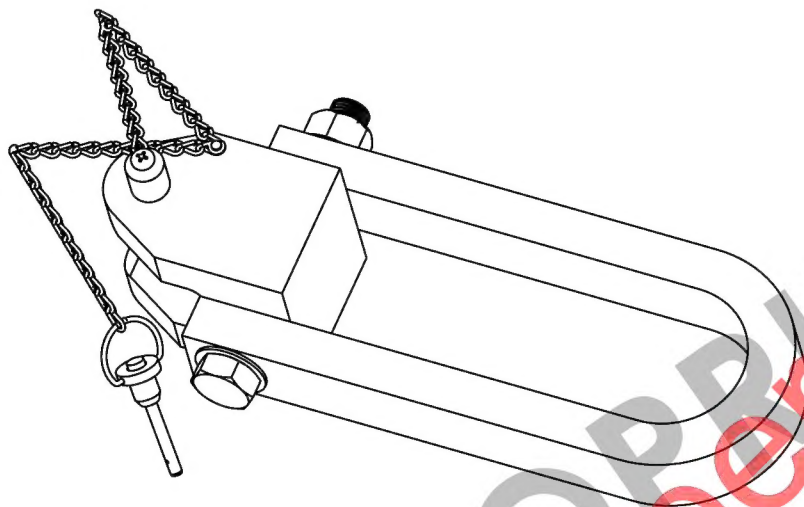


| | | | |
|--|--|-----------------------------------|--|
| TITLE | | LIFTING TOOL | |
| DWG NO. | | RB T102137-111-113 | |
| MAT'L 4140 | | DRAWN BY: DUERFELDT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D. Gilbert</i> | |
| .XXX ± .005 FRACTIONS ± 1/8 | | HEAT RC 32-38 | |
| .XX ± .01 ANGLES ± 5° | | TREAT CAD PLATE YELLOW | |
| .X ± .1 | | FINISH | |
| 1. BREAK ALL SHARP EDGES .015 x .45" OR .015R | | SPEC QQ-P-416F, TYPE II, CLASS II | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | USED ON MODEL | |
| SCALE 1:2 | | BELL 429 | |
| DATE 10/1/2014 | | SHEET 5 OF 6 | |

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|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |

FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE RB T102137-111 LIFT TOOL. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE LIFTING TOOL IN AN APPROPRIATE FIXTURE USE BALL LOCK PIN TO LOCK INTO FIXTURE.
2. APPLY 24,000 lbs. , FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT TOOL, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

UNDER REVIEW

URF 19-670 19.03.29 (VM)

INSPECTOR _____

TESTER _____

S.N. _____

DATE _____

DART
AEROSPACE

190 S. Danebo Ave., Eugene, OR. 97402
1-800-556-4166
e-mail: sales@dartaero.com
dartaerospace.com

| | | | |
|----------------|-----------|-----------------|--|
| TITLE | | | |
| LIFTING TOOL | | | |
| DWG NO. | REV | | |
| RB T102137-111 | A | CUSTOMER 1 OF 1 | |
| SCALE | DATE | SHEET | |
| 1:2 | 10/1/2014 | 6 OF 6 | |